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Experiment No. : 02

Statement : Make experiment 1 work with two switches. One switch press would result running of LEDs in one direction, while the second switch press would result running of LEDs in opposite direction.

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```
int led[]={2,3,4,5,6};
```

```
int loopLed=5;
```

```
int switchPin1=10;
```

```
int switchPin2=9;
```

```
void setup() {
```

```
pinMode(switchPin1, INPUT_PULLUP);
```

```
pinMode(switchPin2, INPUT_PULLUP);
```

```
for(int i=0;i<loopLed;i++){
```

```
pinMode(led[i], OUTPUT);
```

```
}
```

```
}
```

```
void loop() {
```

```
if(digitalRead(switchPin1)==LOW){
```

```
runLeds(100);
```

```
}
```

```
if (digitalRead(switchPin2)==LOW) {
```

```
runLedsReverse(100);
```

```
}
```

```
}
```

```
void runLeds(int n){
```

```
for(int i=0;i<loopLed;i++){
```

```
digitalWrite(led[i],HIGH);
```

```
delay(n);
```

```
digitalWrite(led[i],LOW);
```

```
}
```

```
}
```

```
void runLedsReverse(int n){
```

```
for(int i=loopLed-1;i>=0;i--){
```

```
digitalWrite(led[i],HIGH);
```

```
delay(n);
```

```
digitalWrite(led[i],LOW);
```

```
}
```

```
}
```

